

## Alex Hofmann

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## **PROFESSIONAL EXPERIENCE**

**Principal Systems Architect / Team Leader / Backend Software Engineer / Senior Full-Stack Developer**  
*(also nerd, design purist, and clean code evangelist)*

**Sacoa Playcard**, Buenos Aires, Argentina / 2002-2019

With over 1,800 installations in more than 70 countries, Sacoa is a leader implementing cashless management systems for FEC, hospitality, gaming, tourism and restaurant industries.

- Planned and executed the migration of the entire legacy software base to new technologies. C#, .NET, SQL Server running on Virtualized Environments (IaaS, SaaS)
- Architect of POS, mobile POS, Self-Service Kiosk, and more than 40 integrations and interfaces with specialized hardware, payment gateways, government agencies, other vendor APIs in over 50 countries
- Designed, set strategy and implemented migration to cloud computing environments (AWS / Azure)
- Improved games and POS responsiveness by 400% and data reporting engine speed by over 600%
- Streamlined the installation process reducing costs and timeframes by more than 50%
- Lead interdisciplinary Agile Engineering team of 10+ people. Mentored and trained over a dozen new Engineers and Programmers
- Designed and implemented CI/CD pipeline inspired on latest DevOps practices, improving software quality and dramatically reducing release cycles and regression errors
- Demonstrated agility, innovation and adaptability delivering highly specialized technical solutions for diverse clients in high demand, results driven environment

### **Enterprise Software Design & Development**

- Object Oriented and Domain Driven analysis, design and architect of enterprise level LOB real-time Applications
- Legacy system migrations
- Vendor APIs and Hardware interfaces
- SOLID design and programming principles achieving scalability and maintainability
- Clean coder, application patterns like DI/IoC (and avoidance of antipatterns)
- Professional techniques of error logging and handling
- SOA principles and practices
- MVC/MVP/MVVM front-end architectures
- Application of Domain Driven Design (DDD) and Test Driven Design (TDD)

### **Programming & Technical**

- Full Stack C# and Visual Basic .NET Developer (.NET Framework up to 4.8, .NET Core 3.0)
- Winforms, WPF, ASP.NET Core, Razor Pages.
- Senior SQL Server programmer, profiler, DBA and business intelligence analyst
- Refactor of legacy components, design and build of ActiveX interop wrappers
- RESTful/SOAP services
- WebApi / Webhooks
- Windows Communication Foundation (WCF)
- Hibernate & Entity Framework ORM
- Ample experience with async and multi-threaded programming for high performing tasks

## **Project Management & DevOps**

- Strong analytical and problem-solving skills
- 20 years experience designing, developing, maintaining highly performant and available applications
- Software delivery within virtualized environments (VMWare/Hyper-V)
- DevOps experience: Source control, CI/CD pipelines, automated builds and tests, acceptance tests, containerization, monitoring
- Implemented SCRUM and AGILE development methodologies for continuous value delivery
- Development of test plans. Conducted and assisted in Unit and Integration Testing
- Graylog and Elasticsearch for application monitoring and log management
- Coached and mentored new programmers and architects regarding cutting edge tools, technologies, design patterns, and other sustainable programming philosophies

## **Software & Hardware Integration**

- Updated and revamped "Pampa" and "Venturer" simulator rides, replacing of old technology like laserdiscs and cartridges for PC with special custom made software and MIDI hardware
- Integrated Sacoa debit card system with hotel property management systems (PMS) like CONTROL for several hotels and casinos across the USA
- Developed interfaces with proprietary hardware like credit card pin pads and readers, card dispensers, cash validators, printers, swipe/gas pump/RFID/Barcode readers
- Integrated and certified with several credit card processors and payment gateways from the USA, Canada, England, Netherlands, Australia, Brasil, and Argentina, among others
- Interfaced with diverse third party APIs from government agencies, third party POS, and facility management systems like Micros, Centeredge, ClubSpeed and Ordix